



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : KMK 2304 4:1 Express Clearcoat

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Clear coating

Recommended restrictions on use : For use in industrial installations or professional treatment only.

1.3 Details of the supplier of the safety data sheet

Company : Kimakem srl
Via Don G. Fortuna 82
36050 Monteviale-Vicenza
Italia

Telephone : +39 0444 1220020

E-mail address of person responsible for the SDS : info@kimakem.com

1.4 Emergency telephone number

+39 0444 1220020 (Mon to Fri - 8:30 to 17:30)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Specific target organ toxicity - single exposure, Category 3, Central nervous system H336: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure, Category 2 H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours.
P260 Do not breathe spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

acetone
n-butyl acetate
xylene (mixture of isomers)
Solvent naphtha (petroleum), light arom.

Additional Labelling

EUH208 Contains Derivative of benzotriazol, Reaction product of pentamethyl-piperidyl sebacate, dibutyltin dilaurate. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

Chemical nature : Paint

Hazardous components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--|---|--|--------------------------|
| acetone | 67-64-1 200-662-2 606-001-00-8 01-2119471330-49 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066 | >= 30 - < 50 |
| n-butyl acetate | 123-86-4 204-658-1 607-025-00-1 01-2119485493-29 | Flam. Liq. 3; H226 STOT SE 3; H336 EUH066 | >= 10 - < 20 |
| xylene (mixture of isomers) | 1330-20-7 215-535-7 601-022-00-9 01-2119488216-32 | Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304 | >= 1 - < 10 |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 265-199-0 649-356-00-4 | Flam. Liq. 3; H226 STOT SE 3; H335 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 2,5 - < 10 |
| ethylbenzene | 100-41-4 202-849-4 601-023-00-4 01-2119489370-35 | Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412 | >= 2,5 - < 10 |
| Derivative of benzotriazol | 104810-47-1 400-830-7 607-176-00-3 01-0000015075-76-0017 | Skin Sens. 1; H317 Aquatic Chronic 2; H411 | >= 0,25 - < 1 |
| Reaction product of pentamethyl-piperidyl sebacate | 1065336-91-5 915-687-0 01-2119491304-40 | Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 0,25 - < 1 |
| dibutyltin dilaurate | 77-58-7 201-039-8 01-2119496068-27 | Muta. 2; H341 Repr. 1B; H360FD STOT SE 1; H370 STOT RE 1; H372 Skin Corr. 1C; H314 Aquatic Acute 1; | >= 0,1 - < 0,25 |

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

| | | | |
|--|--|--|--|
| | | H400 Aquatic Chronic 1; H410 Skin Sens. 1; H317 | |
|--|--|--|--|

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Inhalation may provoke the following symptoms:
Headache
Vertigo
Fatigue
Weakness
Skin contact may provoke the following symptoms:
Redness
Pain
Ingestion may provoke the following symptoms:
Abdominal pain
Nausea
Vomiting
Diarrhoea

KMK 2304 4:1 Express Clearcoat

Version

1.0

Revision Date:

07.02.2018

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions. Electrical installations / working materials must comply with the technological safety

KMK 2304 4:1 Express Clearcoat

Version

1.0

Revision Date:

07.02.2018

standards.

Further information on storage conditions : <** Phrase language not available: [EN] CUST - Z99.00000000038 **>

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For the use of this product do not exist particular recommendations apart from that already indicated.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|-----------------------------|---|-------------------------------|------------------------|------------|
| acetone | 67-64-1 | TWA | 500 ppm 1.210 mg/m3 | 2000/39/EC |
| Further information | Indicative | | | |
| | | VLA-ED | 500 ppm 1.210 mg/m3 | ES VLA |
| Further information | Chemical agent for which a specific Biological Limit Value exists in this document., Chemical agent with an indicative limit value established by the EU. All these chemicals are contained in at least one of the directives of indicative limit values published so far (see Appendix C. Bibliography). Member states shall transpose the limits set in the Directives within a certain time frame. Once adopted, these values have the same validity as the rest of the values adopted by the country. | | | |
| n-butyl acetate | 123-86-4 | VLA-ED | 150 ppm 724 mg/m3 | ES VLA |
| | | VLA-EC | 200 ppm 965 mg/m3 | ES VLA |
| xylene (mixture of isomers) | 1330-20-7 | VLA-ED | 50 ppm 221 mg/m3 | ES VLA |
| Further information | Skin, Chemical agent for which a specific Biological Limit Value exists in this document., Chemical agent with an indicative limit value established by the EU. All these chemicals are contained in at least one of the directives of indicative limit values published so far (see Appendix C. Bibliography). Member states shall transpose the limits set in the Directives within a certain time frame. Once adopted, these values have the same validity as the rest of the values adopted by the country. | | | |
| | | VLA-EC | 100 ppm 442 mg/m3 | ES VLA |
| Further information | Skin, Chemical agent for which a specific Biological Limit Value exists in this document., Chemical agent with an indicative limit value established by the EU. All these chemicals are contained in at least one of the directives of | | | |

KMK 2304 4:1 Express Clearcoat

Version

1.0

Revision Date:

07.02.2018

| | | | | |
|----------------------|---|--------|----------------------------------|------------|
| | indicative limit values published so far (see Appendix C. Bibliography). Member states shall transpose the limits set in the Directives within a certain time frame. Once adopted, these values have the same validity as the rest of the values adopted by the country. | | | |
| | | TWA | 50 ppm 221 mg/m ³ | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 100 ppm 442 mg/m ³ | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative | | | |
| ethylbenzene | 100-41-4 | TWA | 100 ppm 442 mg/m ³ | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 200 ppm 884 mg/m ³ | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | VLA-ED | 100 ppm 441 mg/m ³ | ES VLA |
| Further information | Skin, Chemical agent for which a specific Biological Limit Value exists in this document., Chemical agent with an indicative limit value established by the EU. All these chemicals are contained in at least one of the directives of indicative limit values published so far (see Appendix C. Bibliography). Member states shall transpose the limits set in the Directives within a certain time frame. Once adopted, these values have the same validity as the rest of the values adopted by the country. | | | |
| | | VLA-EC | 200 ppm 884 mg/m ³ | ES VLA |
| Further information | Skin, Chemical agent for which a specific Biological Limit Value exists in this document., Chemical agent with an indicative limit value established by the EU. All these chemicals are contained in at least one of the directives of indicative limit values published so far (see Appendix C. Bibliography). Member states shall transpose the limits set in the Directives within a certain time frame. Once adopted, these values have the same validity as the rest of the values adopted by the country. | | | |
| dibutyltin dilaurate | 77-58-7 | VLA-ED | 0,1 mg/m ³ (Tin) | ES VLA |
| Further information | Skin | | | |
| | | VLA-EC | 0,2 mg/m ³ (Tin) | ES VLA |
| Further information | Skin | | | |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|----------------|---------|-----------------------------|---------------|--------|
| acetone | 67-64-1 | Acetone: 50 mg/l (Urine) | end of shift | ES VLB |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|---------|-----------------|----------------------------|------------------------|
| acetone | Workers | Inhalation | Long-term systemic effects | 1210 mg/m ³ |

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

| | | | | |
|---|---------|------------|----------------------------|------------------------|
| n-butyl acetate | Workers | Inhalation | Long-term systemic effects | 480 mg/m ³ |
| xylene | Workers | Inhalation | Long-term systemic effects | 77 mg/m ³ |
| Low boiling point naphtha - unspecified | Workers | Inhalation | Long-term systemic effects | 608 mg/m ³ |
| ethylbenzene | Workers | Inhalation | Long-term systemic effects | 77 mg/m ³ |
| dibutyltin dilaurate | Workers | Inhalation | Long-term local effects | 0,01 mg/m ³ |

8.2 Exposure controls

Personal protective equipment

- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Hand protection
Material : Solvent-resistant gloves
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : viscous liquid
- Colour : colourless
- Odour : characteristic
- pH : Not applicable
- Melting point/range : not determined
- Boiling point/boiling range : not determined
- Flash point : -13 °C
Method: ISO 1523, closed cup
Setaflash
- Upper explosion limit / Upper flammability limit : not determined

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

| | | |
|--|---|--|
| Lower explosion limit / Lower flammability limit | : | not determined |
| Vapour pressure | : | not determined |
| Density | : | 0,92 g/cm ³ (20 °C) Method: ISO 2811-1 |
| Solubility(ies) Water solubility | : | immiscible |
| Viscosity Viscosity, dynamic | : | 32 mPa.s (20 °C) Method: ISO 2555 |
| Viscosity, kinematic | : | > 20,5 mm ² /s (40 °C) |

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No data available

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

- Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

acetone:

- Acute oral toxicity : LD50 Oral (Rat): 5.800 mg/kg
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): > 76 mg/l
Exposure time: 4 h
Test atmosphere: gas
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 (Rabbit): 15.800 mg/kg
Method: OECD Test Guideline 402

n-butyl acetate:

- Acute oral toxicity : LD50 Oral (Rat): 10.768 mg/kg
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): 23,4 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 (Rabbit): 17.600 mg/kg
Method: OECD Test Guideline 402

xylene (mixture of isomers):

- Acute oral toxicity : LD50 Oral (Rat): 4.300 mg/kg
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): 22,08 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

Acute dermal toxicity : Acute toxicity estimate: 1.100 mg/kg
Method: Converted acute toxicity point estimate

Solvent naphtha (petroleum), light arom.:

Acute oral toxicity : LD50 Oral (Rat): 3.592 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 3.160 mg/kg
Method: OECD Test Guideline 402

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat): 3.500 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 17,4 mg/l
Exposure time: 4 h
Test atmosphere: gas
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 15.400 mg/kg
Method: OECD Test Guideline 402

Reaction product of pentamethyl-piperidyl sebacate:

Acute oral toxicity : LD50 Oral (Rat): 3.230 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation

Product:

Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Remarks: Severe eye irritation

Respiratory or skin sensitisation

Product:

Remarks: Based on available data, the classification criteria are not met.

KMK 2304 4:1 Express Clearcoat

Version

1.0

Revision Date:

07.02.2018

Germ cell mutagenicity

Product:

Germ cell mutagenicity - Assessment : Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity

Product:

Based on available data, the classification criteria are not met.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

SECTION 12: Ecological information

12.1 Toxicity

Components:

acetone:

- Toxicity to fish : LC50 (Fish): 5.540 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 12.100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

n-butyl acetate:

- Toxicity to fish : LC50 (Fish): 18 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 32 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Algae): 675 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

xylene (mixture of isomers):

- Toxicity to fish : LC50 (Fish): 14 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 16 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Algae): > 10 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Solvent naphtha (petroleum), light arom.:

- Toxicity to fish : LC50 (Fish): 9,2 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 3,2 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

Toxicity to algae : EC50 (Algae): 2,9 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

ethylbenzene:

Toxicity to fish : LC50 (Fish): 12 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 1,8 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 33 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Derivative of benzotriazol:

Toxicity to fish : LC50 (Fish): 2,8 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 4 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Algae): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Algae): 10 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,78 mg/l
Exposure time: 21 d
Species: Daphnia (water flea)

Reaction product of pentamethyl-piperidyl sebacate:

Toxicity to fish : LC50 (Fish): 0,9 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 20 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 1,68 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

KMK 2304 4:1 Express Clearcoat

Version

1.0

Revision Date:

07.02.2018

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:

Environmental fate and pathways : No data available

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

IMDG : UN 1263

IATA (Cargo) : UN 1263

KMK 2304 4:1 Express Clearcoat

Version

1.0

Revision Date:

07.02.2018

14.2 UN proper shipping name

ADR :
IMDG : PAINT
IATA (Cargo) : Paint

14.3 Transport hazard class(es)

ADR : 3
IMDG : 3
IATA (Cargo) : 3

14.4 Packing group

ADR
Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

IMDG
Packing group : II
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)
Packing instruction (cargo aircraft) : 364
Packing instruction (LQ) : Y341
Packing group : II
Labels : Flammable Liquids

14.5 Environmental hazards

ADR
Environmentally hazardous : no

IMDG
Marine pollutant : no

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Quantity 1

Quantity 2

KMK 2304 4:1 Express Clearcoat

Version
1.0

Revision Date:
07.02.2018

| | | | |
|----------------------------|---|-------------------------------|----------|
| P5c | FLAMMABLE LIQUIDS | 5.000 t | 50.000 t |
| 34 | Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d) | 2.500 t | 25.000 t |
| Volatile organic compounds | | : 535 g/l | |
| Directive 2004/42/EC | | : Special finishes (840 g/l) | |

Other regulations:

The product is classified and labelled in accordance with EC directives or respective national laws.

15.2 Chemical safety assessment

The supplier has not carried out evaluation of chemical safety.

SECTION 16: Other information

Full text of H-Statements

| | |
|--------|---|
| EUH066 | : Repeated exposure may cause skin dryness or cracking. |
| H225 | : Highly flammable liquid and vapour. |
| H226 | : Flammable liquid and vapour. |
| H304 | : May be fatal if swallowed and enters airways. |
| H312 | : Harmful in contact with skin. |
| H314 | : Causes severe skin burns and eye damage. |
| H315 | : Causes skin irritation. |
| H317 | : May cause an allergic skin reaction. |
| H319 | : Causes serious eye irritation. |
| H332 | : Harmful if inhaled. |
| H335 | : May cause respiratory irritation. |
| H336 | : May cause drowsiness or dizziness. |
| H341 | : Suspected of causing genetic defects. |
| H360FD | : May damage fertility. May damage the unborn child. |
| H370 | : Causes damage to organs. |
| H372 | : Causes damage to organs through prolonged or repeated |

KMK 2304 4:1 Express Clearcoat

Version

1.0

Revision Date:

07.02.2018

| | | |
|------|---|--|
| H373 | : | exposure. May cause damage to organs through prolonged or repeated exposure if inhaled. |
| H373 | : | May cause damage to organs through prolonged or repeated exposure. |
| H400 | : | Very toxic to aquatic life. |
| H410 | : | Very toxic to aquatic life with long lasting effects. |
| H411 | : | Toxic to aquatic life with long lasting effects. |
| H412 | : | Harmful to aquatic life with long lasting effects. |

Full text of other abbreviations

| | | |
|-------------------|---|--|
| Acute Tox. | : | Acute toxicity |
| Aquatic Acute | : | Acute aquatic toxicity |
| Aquatic Chronic | : | Chronic aquatic toxicity |
| Asp. Tox. | : | Aspiration hazard |
| Eye Irrit. | : | Eye irritation |
| Flam. Liq. | : | Flammable liquids |
| Muta. | : | Germ cell mutagenicity |
| Repr. | : | Reproductive toxicity |
| Skin Corr. | : | Skin corrosion |
| Skin Irrit. | : | Skin irritation |
| Skin Sens. | : | Skin sensitisation |
| STOT RE | : | Specific target organ toxicity - repeated exposure |
| STOT SE | : | Specific target organ toxicity - single exposure |
| 2000/39/EC | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| ES VLA | : | Spain. Environmental Limits for exposure to Chemical agents - Table 1: Occupational Exposure Values |
| ES VLB | : | Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values |
| 2000/39/EC / TWA | : | Limit Value - eight hours |
| 2000/39/EC / STEL | : | Short term exposure limit |
| ES VLA / VLA-ED | : | Environmental Daily Limit Value |
| ES VLA / VLA-EC | : | Environmental Short Term Value |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

KMK 2304 4:1 Express Clearcoat

Version

1.0

Revision Date:

07.02.2018

population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet : <http://echa.europa.eu>, <http://eur-lex.europa.eu>

Classification of the mixture:

| | |
|-------------------|------|
| Flam. Liq. 2 | H225 |
| Eye Irrit. 2 | H319 |
| STOT SE 3 | H336 |
| STOT RE 2 | H373 |
| Aquatic Chronic 3 | H412 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method |
| Based on product data or assessment |
| Based on product data or assessment |
| Calculation method |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ES / EN